

Corrections in *Cochlodina* (Gastropoda, Pulmonata, Clausiliidae)

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A subspecies of *Cochlodina laminata* is described a second time. It can be distinguished on the basis of mainly the prominence of the apertural lamellae and shell size. Some incorrect data regarding Italian, alpine *C. laminata* are corrected.

Key words: Gastropoda, Pulmonata, Clausiliidae, Alopiinae, *Cochlodina*, Italy, Slovenia, Croatia.

The well-known name of a very characteristic subspecies of *Cochlodina (C.) laminata* (Montagu, 1803) should not be changed for nomenclatorial reasons. Records of *C. (C.) laminata* from the Dolomites, N. Italy, could not be verified. In all cases where the shells were available for research, these belonged to *C. (C.) fimbriata* (Rossmässler, 1835).

Clausiliidae J. E. Gray, 1855
Alopiinae A. J. Wagner, 1913
Cochlodinini Lindholm, 1925
Cochlodina A. Féruccac, 1821

Cochlodina (C.) laminata inaequalis (A. Schmidt, 1868) (figs 1, 2)

Clausilia melanostoma var. *inaequalis* Schmidt, 1868: 29.

Clausilia inaequalis Schmidt, 1868: 31, 32.

Not: *Clausilia bidens* var. *inaequalis* M. Gallenstein, 1852.

Clausiliaстра grossa var. *inaequalis*; Clessin, 1888: 339.

Cochlodina laminata inaequalis; Gittenberger, 1967: 31, fig. 8. Nordsieck, 1969: 114.

Cochlodina laminata insulana; Nordsieck, 1993: 34 [part.]. Not Gittenberger, 1967.

Material. — Croatia, Istra: Ucka Mtn, 800-950 m alt., UTM VL31, E.G. leg. (RMNH 106889 [fig. 1] & 106890/13 [fig. 2]); 'Monte Maggiore' (= Ucka Mtn), UTM VL31, W. Klemm leg. (ex colln W. H. Neuteboom) (RMNH 106892/3); ditto, W. Klemm don. (ex colln F. E. Loosjes) (RMNH 106891/4); N-slope near Veprinac, 350 m alt., UTM VL42, W. J. M. Maassen leg. (YU345/1); N-slope near Poklon, 970 m alt., UTM VL31 (YU346/3); near Poklon, ruins near motel, 950 m alt., UTM VL31, W. J. M. Maassen leg. (YU398/12).

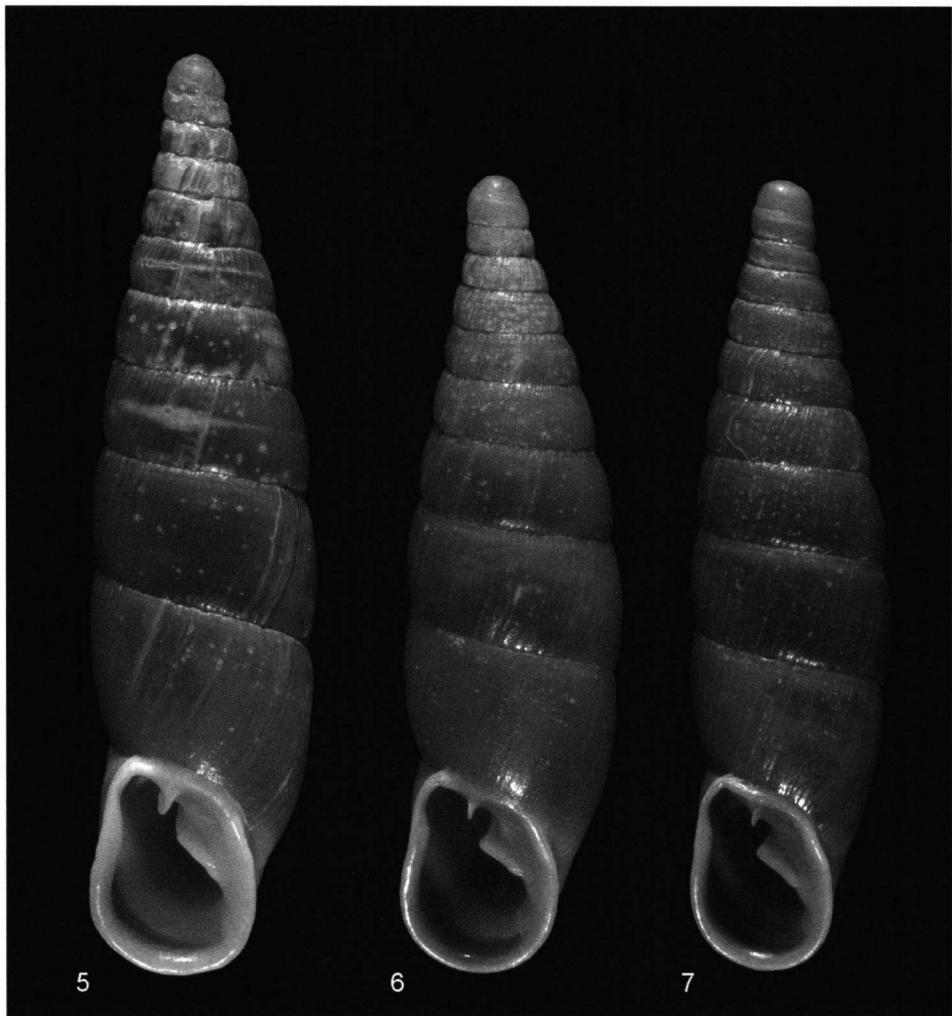
Description. — Shell large, with a very prominent, apertural, palatal callus, that is interrupted conspicuously by the lower palatal plica. Plicae principalis and basalis prominent and connected to the radial callus in front; plica basalis often broadened in front and less lamella-like. Usually with two small, somewhat irregular, middle palatal plicae, that are often interconnected, one of which broadened in front and connected to the callus. Lamella subcolumellaris protruding more conspicuously than in any other *C. laminata* subspecies.



Figs 1-4. *Cochlodina (C.) laminata* subsp. 1, 2, *C. (C.) l. inaequalis* (Schmidt, 1868), Croatia, Istra, Ucka Mtn, 800-950 m alt., UTM VL31; E. & A.C. Gittenberger leg. (1, 20.6×4.9 mm; 2, 18.6×4.5 mm). 3, 4, *C. (C.) l. insulana* Gittenberger, 1967, Croatia, Krk island, near Risika (= W. of Vrbnik), UTM VK79; W.J.M. Maassen leg. (3, 18.2×4.4 mm; 4, 17.2×4.3 mm). Photographs: J. Goud, Leiden.

Measurements ($n = 37$): $17.6\text{-}19.9 \times 4.5\text{-}5.0$ mm. Gittenberger (1967: 32), on the basis of a larger material, reported a larger size-range, viz. $18.0\text{-}21.0 \times 4.3\text{-}5.0$ mm.

Differentiation. — *Cochlodina laminata insulana* Gittenberger, 1967, from the island of Krk (figs 3, 4) is clearly smaller. A series [$n = 49$] collected vii.1982 by Mr W.J.M. Maassen in Slovenia, Krk, near Risika, W. of Vrbnik, UTM VK79 measures $14.8\text{-}18.1 \times 3.8\text{-}4.3$ mm. A second sample [$n = 9$] measures $15.0\text{-}18.0 \times 4.1\text{-}4.3$ mm. The palatal callus and the pliae and lamellae are less prominent than in *C. l. inaequalis*; the lamella subcolumellaris in particular is less prominently protruding. The other subspecies of *C. laminata*



Figs 5-7. *Cochlodina fimbriata* (Rossmässler, 1835). 5, Austria, Kärnten, Koschuta Mts, 11 km SE. of Ferlach, 1650 m alt., E. Gittenberger leg. (15.5×3.8 mm); 6, 7, Italy, Belluno, Dolomiti, near Rifugio Chiggiato, 6 km NNW. of Pieve di Cadore, 1900 m alt., G. Marcuzzi leg. (ex colln Venmans) (6, 13.5×3.7 mm; 7, 13.3×3.4 mm). Photographs: J. Goud, Leiden.

are even more clearly different.

Notes. — Nordsieck (1993: 34) showed that *Clausilia bidens* var. *inaequalis* M. Gallenstein, 1852, and *Clausilia melanostoma* var. *inaequalis* Schmidt, 1868, are primary homonyms. Since the former name is not "also in use", whereas Clessin (1888: 339) before 1899 already classified the latter taxon with *Clausiliastra* L. Pfeiffer, 1856, and no cases of secondary homonymy are known, the junior primary homonym "must not automatically" be replaced (ICZN Art. 23.9.5). The case will be referred to the commission. Nordsieck

(1993: 34) suggested to use the name of the insular subspecies, i.e. *Cochlodina laminata insulana* Gittenberger, 1967, "vorläufig" [= for the time being] also for the "kaum verschiedene" [= hardly different] mainland populations. I see no reason to change my previous view (Gittenberger, 1967) in this case as far as the interpretation of the conchological differences is concerned. Therefore, the two taxa are considered subspecies and characterized as such once more.

Cochlodina (C.) fimbriata (Rossmässler, 1835) (figs 5-7)

Notes. — Despite the fact that *Cochlodina (C.) fimbriata* (figs 5-7) is quite variable, with disjunctions in the Alps and the Balkans, the species has largely remained spared from subspecific classifications. In the Dolomites in central northern Italy it occurs with a form that slightly reminds of *C. (C.) laminata* because the characteristic, white, apertural, palatal callus is less conspicuous than usual. The shells are less pale in colour and relatively small. They can still be recognized as belonging to *C. (C.) fimbriata* because of the short lower palatal fold. This form (figs 6, 7) has been referred to more than once in the literature (Thorson, 1930; Venmans, 1954, 1959), but always incorrectly as *C. (C.) laminata*. Maybe it deserves a subspecific status. It might be comparable in its phylogeographic history to for example *Clausilia (Andraea) dubia alpicola* Clessin, 1878 (see Bank & Gittenberger, 2000).

REFERENCES

BANK, R.E., & E. GITTEMBERGER, 2000. On the polytypic and problematic *Clausilia dubia*: notes on its nomenclature and systematics (Gastropoda, Pulmonata, Clausiliidae). — *Basteria* 64: 15-27.

CLESSIN, S., 1888. Die Mollusken-Fauna Oesterreich-Ungarns und der Schweiz 3: 321-480. Nürnberg.

GITTENBERGER, E., 1967. *Cochlodina laminata* (Montagu) in ihrem südöstlichen Verbreitungsgebiet. — *Archiv für Molluskenkunde* 96: 25-37.

NORDSIECK, H., 1969. Zur Anatomie und Systematik der Clausiliien, V. Genitalsystem und Systematik des Genus *Cochlodina*. — *Archiv für Molluskenkunde* 99: 107-132.

NORDSIECK, H., 1993. Beiträge zur Nomenklatur der europäischen Binnenmollusken, I. Kritische Anmerkungen und Berichtigungen zur Nomenklatur von Arttaxa der Clausiliidae. — *Heldia* 2: 33-42.

SCHMIDT, A., 1868. System der europäischen Clausiliien und ihrer nächsten Verwandten: 1-176. Cassel.

THORSON, G., 1930. Zoogeographische und ökologische Studien über die Landschnecken in den Dolomiten. — *Zoologische Jahrbücher. Abteilung für Systematik, Ökologie und Geographie der Tiere* 60: 85-238.

VENMANS, L.A.W.C., 1954. Land and freshwater mollusks from the Dolomites. — *Atti dell'Istituto Veneto di Scienze, Lettere ed Arti. Classe di scienze matem. e naturali* 112: 59-96.

VENMANS, L.A.W.C., 1959. Land and freshwater molluscs from the Dolomites (supplement). — *Atti dell'Istituto Veneto di Scienze, Lettere ed Arti. Classe di scienze matem. e naturali* 117: 357-371.